

24. (New) A sample cell according to claim 23, wherein the reflective surfaces of the end walls are polished.

25. (New) A sample cell according to claim 23, wherein the end walls are molded.

26. (New) A sample cell according to claim 23, wherein the reflective surface of the side wall is curved.

27. (New) A sample cell according to claim 23, wherein the reflective surface of the side wall has a circular profile in a plane extending parallel with the reflective surfaces of the end walls of the cell.

28. (New) A sample cell according to claim 23, wherein the reflective surface of the side wall has a flat profile in a plane extending parallel to the axis of the cell.

29. (New) A sample cell according to claim 23, wherein the side wall is molded.

30. (New) A sample cell according to claim 23, wherein the reflective surface of the side wall is polished.

31. (New) A sample cell according to claim 23, further comprising a light transmissive window positioned within the port of the side wall.

32. (New) A sample cell according to claim 23, wherein the cell has a height measured in a direction parallel to the axis substantially equal to a source length.

33. (New) An absorption spectroscopy apparatus including a sample cell according to claim 23, and further comprising at least one source/detector reflector having a curved profile in a plane extending perpendicular to the axis of the sample cell, the reflector positioned with respect to the port of the side wall of the sample cell to reflect energy through the port and against the predetermined location on the reflective surface of the side wall.

34. (New) An absorption spectroscopy apparatus according to claim 33, wherein the port of the side wall of the sample cell comprises inlet and outlet ports, and the source/detector reflector comprises separate source and detector reflectors corresponding respectively to the inlet and the outlet ports.

35. (New) An absorption spectroscopy apparatus according to claim 34, further comprising:

a source for directing energy against the source reflector; and

a detector for receiving energy from the detector reflector.

36. (New) An absorption spectroscopy apparatus according to claim 33, further comprising an intermediate reflector positioned with respect to the port of the side wall of the sample cell and the emitter/detector reflector to reflect energy from the emitter/detector reflector through the port of the cell and against the predetermined location on the reflective surface of the side wall of the cell.

37. (New) An absorption spectroscopy apparatus according to claim 34, further comprising:

a source for directing energy against the at least one source/detector reflector; and

a detector for receiving energy from the at least one source/detector reflector.

38. (New) An absorption spectroscopy apparatus according to claim 34, wherein the port of the side wall of the cell comprises a single inlet/outlet port, and the source/detector reflector comprises a single source/detector reflector, and the apparatus further comprises a source for directing energy against the source/detector reflector, and a detector for receiving energy from the source/detector reflector.

39. (New) An absorption spectroscopy apparatus according to claim 34, further comprising a source for directing energy against the at least one source/detector reflector, wherein the source provides infrared energy.

40. (New) An absorption spectroscopy apparatus according to claim 34, wherein the source/detector reflector comprises a segment of a cylinder.

41. (New) An absorption spectroscopy apparatus according to claim 34, wherein the source/detector reflector is polished.

42. (New) An absorption spectroscopy apparatus according to claim 34, wherein the source/detector reflector is molded.

43. (New) A sample cell according to claim 23, wherein a height of the cell defined between the end walls is relatively small compared to a width of the cell defined by the at least one side wall.

44. (New) A sample cell according to claim 43, wherein the width of the cell is at least twenty times greater than the height of the cell.

REMARKS

Claims 1-44 remain in the present application. By this amendment, new claims 23 through 44 have been added. Support for these amendments can be found in the specification and drawing figures as originally filed. No new matter has been added.

Attached hereto is a marked up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made."